

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
WO 2004/113236 A2

(51) International Patent Classification<sup>7</sup>: C02F 1/50

(21) International Application Number: PCT/GB2004/002656

(22) International Filing Date: 21 June 2004 (21.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0314365.8 20 June 2003 (20.06.2003) GB  
0328388.4 6 December 2003 (06.12.2003) GB

(71) Applicant (for all designated States except US): RHODIA CONSUMER SPECIALTIES LIMITED [GB/GB]; Oak House, Reeds Crescent, Watford, Hertfordshire WD24 4QP (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PESCHER, Yvette, Raymonde, Odette, Eliane [FR/FR]; 52 Av. René Coty, F-75014 Paris (FR). TALBOT, Robert, Eric [GB/GB]; 3 Meriden Close, Cannock, Staffordshire WS11 1QG (GB). LOUVEL, Luc, Olivier, Henri [FR/FR]; 23, rue Molière,

F-69006 Lyon (FR). PILAS-BEGUE, Agnes [FR/FR]; 25 Passage Saint Romain, F-01700 Miribel (FR). CATINON, Laetitia [FR/FR]; c/o Rhodia Consumer Specialties Limited, Oak House, Reeds Crescent, Watford, Hertfordshire WD24 4QP (GB). MOREAU, Gilles, Michel [FR/FR]; c/o Rhodia Consumer Specialties Limited, Oak House, Reeds Crescent, Watford, Hertfordshire WD24 4QP (GB).

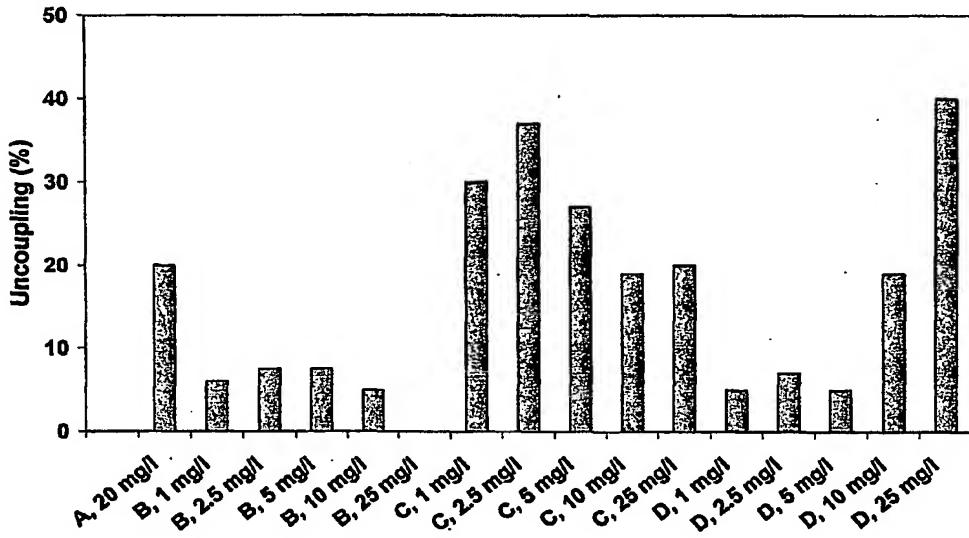
(74) Agent: BARKER BRETELL; 138 Hagley Road, Edgbaston, Birmingham B16 9PW (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: UNCOUPLING AGENTS



WO 2004/113236 A2

(57) Abstract: The invention provides the use of a water-soluble biocide as an uncoupling agent at an effective amount to control bacterial biomass in an aqueous system. The invention also provides a method for controlling the growth of bacterial biomass in an aqueous system. The method comprises adding to, or contacting with, the aqueous system an effective amount of an uncoupling agent which is a water-soluble biocide. In a preferred embodiment the method comprises contacting an effective amount of an uncoupling agent which is a water-soluble biocide directly with the bacterial biomass in an aqueous system.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
WO 2004/113236 A3

(51) International Patent Classification<sup>7</sup>: C02F 1/50, A01N 61/00, 57/34

(21) International Application Number: PCT/GB2004/002656

(22) International Filing Date: 21 June 2004 (21.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0314365.8 20 June 2003 (20.06.2003) GB  
0328388.4 6 December 2003 (06.12.2003) GB

(71) Applicant (for all designated States except US): RHODIA CONSUMER SPECIALTIES LIMITED [GB/GB]; Oak House, Reeds Crescent, Watford, Hertfordshire WD24 4QP (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PESCHER, Yvette, Raymonde, Odette, Eliane [FR/FR]; 52 Av. René Coty, F-75014 Paris (FR). TALBOT, Robert, Eric [GB/GB]; 3 Meriden Close, Cannock, Staffordshire WS11 1QG (GB). LOUVEL, Luc, Olivier, Henri [FR/FR]; 23, rue Molière, F-69006 Lyon (FR). PILAS-BEGUE, Agnes [FR/FR]; 25 Passage Saint Romain, F-01700 Miribel (FR). CATINON, Laetitia [FR/FR]; c/o Rhodia Consumer Specialties Limited, Oak House, Reeds Crescent, Watford, Hertfordshire WD24 4QP (GB).

(74) Agent: BARKER BRETTTELL; 138 Hagley Road, Edgbaston, Birmingham B16 9PW (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

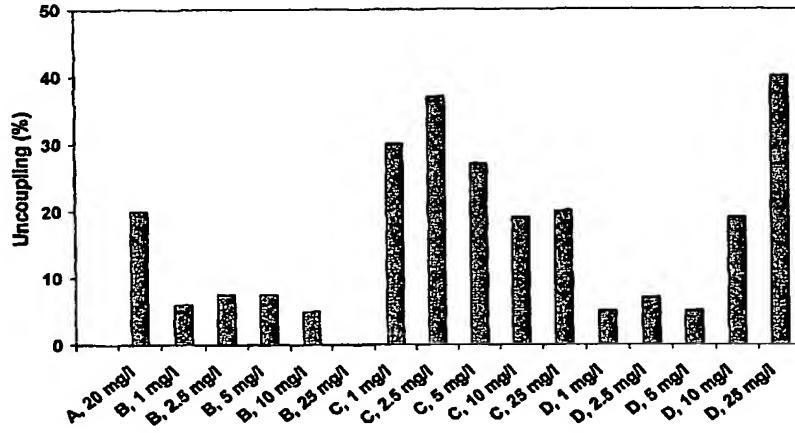
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: UNCOUPLING AGENTS



(57) Abstract: The invention provides the use of a water-soluble biocide as an uncoupling agent at an effective amount to control bacterial biomass in an aqueous system. The invention also provides a method for controlling the growth of bacterial biomass in an aqueous system. The method comprises adding to, or contacting with, the aqueous system an effective amount of an uncoupling agent which is a water-soluble biocide. In a preferred embodiment the method comprises contacting an effective amount of an uncoupling agent which is a water-soluble biocide directly with the bacterial biomass in an aqueous system.



- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:  
10 February 2005